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-  10. **Molecular and genetic analysis oflin-29, a heterochronic gene controlling hypodermal cell fate in C.**  
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L2	301	(LICK or SMG1 or SMG-1) AND kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
L3	36	(LICK or SMG1 or SMG-1) same kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
L4	34	(SMG1 or SMG-1) same kinase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:14
S1	3	"2003228675".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/13 07:12
S2	2	"20030228675".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/13 13:31
S3	2	"20040248244".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/13 14:24
S4	2	"6344549".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/13 16:01
S5	2	"6344549".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/13 16:01
S6	0	S5 and aminoglycoside	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/13 16:01

SMG-1  
Bridging  
Protein

EP 1 541 684 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11353

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/12, 1/21, 5/10, C07K14/47, 16/18, C12Q1/02, 1/48,  
G01N33/15, 33/50, A01K67/027, A61K39/395, 45/00, A61P43/00,  
G01N33/15, 33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/09-90, 1/21, 5/10, C07K14/47, 16/18, C12Q1/02, 1/48,  
G01N33/15, 33/50, A01K67/027, A61K39/395, 45/00, A61P43/00,  
G01N33/15, 33/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003  
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

SwissProt/PIR/GeneSeq, Genbank/EMBL/DDBJ/GeneSeq, MEDLINE (STN),  
WPIDS (STN), BIOSIS (STN), JICST FILE (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 02/095025 A1 (Japan Science and Technology Corp.), 28 November, 2002 (28.11.02), & JP 2003-038189 A	1-8
A	EP 1074617 A2 (Helix Research Institute), 07 February, 2001 (07.02.01), & JP 2002-191363 A	1-8
A	WO 02/31111 A2 (HYSEQ, INC.), 18 April, 2002 (18.04.02), & AU 9623501 A	1-8
A	DENNING, G. et al., Cloning of a novel phosphatidylinositol kinase-related kinase, J.Biol.Chem., Vol.276, No.25, pages 22709 to 22714, 22 June, 2001 (22.06.01)	1-8

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search

10 October, 2003 (10.10.03)

Date of mailing of the international search report

28 October, 2003 (28.10.03)

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11353

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	YAMASHITA, A. et al., Human SMG-1, a novel phosphatidylinositol 3-kinase-related protein kinase, associates with components of the mRNA surveillance complex and is involved in the regulation of nonsense-mediated mRNA decay., Genes Dev., Vol.15, No.17, p.2215-28, 01 September, 2001 (01.09.01)	1-8
P,A	CHIU S.Y. et al., Characterization of human Smg5/7a: a protein with similarities to Caenorhabditis elegans SMG5 and SMG7 th at functions in the dephosphorylation of Upf1., RNA, Vol.9, No.1, pages 77 to 87, 2003 January	1-8
A	Akeo YAMASHITA et al., mRNA Surveillance Idenshi Hen'i ni Taisuru Fuhenteki na Saibo no Bogyo Kiko, Protein, Nucleic acid and Enzyme, 01 February, 2002 (01.02.02), Vol.47, No.2, pages 101 to 112	1-8
A	Tetsuo ONISHI et al., Shinki P13K Kanren Kyodai Protein Kinase no Kozo to Kino no Kaiseki, Dai 22 Kai The Molecular Biology Society of Japan Nenkai Program Koen Yoshishu, Dai 22 Kai The Molecular Biology Society of Japan Nenkai Soshiki Iinkai, 22 November, 1999 (22.11.99), page 235, W2I-7	1-8

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11353

**Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 9-17  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  
Claims 9 to 11 relate to a substance defined by the desired function of "controlling SMGBPl activity" and thus involve any substances having such function. However, no specific substance corresponding thereto is presented in the description. Therefore, claims 9 to 11 (continued to extra sheet)
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

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2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/111353

Continuation of Box No. I-2 of continuation of first sheet (1)

are neither supported by the description nor disclosed therein. Even though the common technical knowledge at the point of the application is taken into consideration, it is unknown what specific compounds are involved therein and what are not. Thus, the above claims are described in an extremely unclear manner. The same applies to methods using the above substance and utilization thereof as set forth in claims 12 to 17.

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#14 Search #12 AND #9	07:10:47	<u>12</u>
#13 Search #12 AND (#10 OR #11)	07:10:33	<u>72</u>
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encodes a protein kinase of the phosphatidylinositol kinase superfamily of protein kinases; SMG-1 kinase activity is required in vivo for nonsense-mediated mRNA decay and in vitro for SMG-2 phosphorylation

Date introduced: September 28, 2004

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